

## CLAIMS

1. A negative photosensitive resin composition, comprising an alkali-soluble resin (a), a reactive monomer (b), and a photoreaction initiator (c), wherein 50% or more of a total mass of the blended reactive monomer (b) is a monofunctional reactive monomer.
2. The negative photosensitive resin composition according to claim 1, which generates projections for controlling liquid crystal alignment wherein a surface shape of the projections is a smoothly curved surface, a height of the projections is within a range from 0.5 to 5  $\mu\text{m}$ , and precision of the height of the projections is no greater than  $\pm 0.1 \mu\text{m}$ .
3. A negative photosensitive element, comprising a negative photosensitive resin composition layer that uses the negative photosensitive resin composition according to either claim 1 or 2 positioned on top of a support.
4. A method of producing projections having a curved surface, comprising at least:
  - (I) a step of layering either the negative photosensitive resin composition according to claim 1 or 2, or the negative photosensitive resin composition layer of the negative photosensitive element according to claim 3 onto a substrate, thereby forming a negative photosensitive resin composition layer on top of the substrate,
  - (II) a step of patterning the negative photosensitive resin composition layer by irradiation with an activation light beam,
  - (III) a step of generating a resin pattern by developing, and
  - (IV) a step of heating the resin pattern.
5. A method of producing projections for controlling liquid crystal alignment, comprising at least:
  - (I) a step of layering either the negative photosensitive resin composition according to claim 1 or 2, or the negative photosensitive resin composition layer of the

negative photosensitive element according to claim 3 onto a substrate, thereby forming a negative photosensitive resin composition layer on top of the substrate,

- (II) a step of patterning the negative photosensitive resin composition layer by irradiation with an activation light beam,
- (III) a step of generating a resin pattern by developing, and
- (IV) a step of generating projections having smoothly curved surfaces by heating.

6. Projections for controlling liquid crystal alignment, produced using the method according to claim 5.

7. A substrate having the projections for controlling liquid crystal alignment according to claim 6.

8. A liquid crystal panel that is produced using the substrate having projections for controlling liquid crystal alignment according to claim 7.